

Table 1: Changes to NOAA Release B RBRs
 Baseline: November 8,1996
 CCR: 96-1472/A

RBR_id	req_key	req_category	segment	req_type	s_verif_method	s_verif_status	a_verif_method	a_verif_status	text	interpretation text	clarification	
NOAA0020# B	2099	<u>mission essential</u> TBD	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The ECS shall maintain a controlled list of the mutually-agreed data sets required from the NOAA ADC to support ECS standard product generation.			
NOAA0030# B	5861	<u>mission essential</u> TBD	SDPS	interface	<u>demo</u> TBD	un-verified	<u>demo</u>	<u>un-verified</u>	The interface providing catalog interoperability between the ECS and the SAA shall support the V0 protocol.			
NOAA0100# B	2103	<u>mission essential</u> TBD	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The SAAs shall have the capability to send and the ECS shall have the capability to receive			

									advertising information.		
NOAA0140# B	2109	<u>mission essential</u> TBD	CSMS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The SAAs shall have the capability to send and the ECS shall have the capability to receive User Authentication Results.		
NOAA0210# B	2113	<u>mission essential</u> TBD	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The ECS shall have the capability to send and the SAAs shall have the capability to receive Guide Queries.		
NOAA0220# B	2115	<u>mission essential</u> TBD	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The SAAs shall have the capability to send and the ECS shall have the capability to receive Guide Query Results.		
NOAA0230# B	6207		SDPS	interface	<u>test</u>	un-verified	<u>test</u>	un-verified	The ECS shall have the capability to send and the		

									SAAs shall have the capability to receive Guide Query Results.		
NOAA0250# B	2119	<u>mission essential</u> TBD	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The ECS shall have the capability to send and the SAAs shall have the capability to receive Inventory Queries.		
NOAA0260# B	2121	<u>mission essential</u> TBD	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The SAAs shall have the capability to send and the ECS shall have the capability to receive Inventory Query Results.		
NOAA0290# B	2125	<u>mission essential</u> TBD	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The ECS shall have the capability to send and the SAAs shall have the capability to receive		

									Browse Requests.		
NOAA0330# B	2131	<u>mission essential</u> TBD	SDPS	interface	<u>demo</u> TBD	un-verified	<u>demo</u>	<u>un-verified</u>	The ECS shall have the capability to send and the SAAs shall have the capability to receive Cost Estimate Requests.		<u>Cost estimate request implicit in Inventory Request</u>
NOAA0340# B	2133	<u>mission essential</u> TBD	SDPS	interface	<u>demo</u> TBD	un-verified	<u>demo</u>	<u>un-verified</u>	The SAAs shall have the capability to send and the ECS shall have the capability to receive Cost Estimates.		<u>Cost data is part of Inventory Request results</u>
NOAA0410# B	2137	<u>mission essential</u> TBD	SDPS	interface	<u>demo</u> TBD	un-verified	<u>demo</u>	<u>un-verified</u>	The ECS shall have the capability to send and the SAAs shall have the capability to receive Product Requests.		
NOAA0430# B	2140	<u>N/A procedural</u> TBD	<u>N/A procedural</u> SDPS	<u>procedural</u> interface	<u>not verified by ECS</u> TBD	<u>N/A procedural</u> un-verified	<u>not verified by ECS</u>	<u>N/A procedural</u>	The ECS shall have the capability to		<u>Operator manual intervention: Product</u>

					D				send and the SAA's shall have the capability to receive Product Delivery Status Requests.		<u>Delivery Status Requests will be made by manual means</u>
NOAA0440# B	2142	<u>N/A procedural</u> TBD	<u>N/A procedural</u> SDPS	<u>procedural interface</u>	<u>not verified by ECSTB</u> D	<u>N/A procedural</u> un-verified	<u>not verified by ECS</u>	<u>N/A procedural</u>	The SAA's shall have the capability to send and the ECS shall have the capability to receive Product Delivery Status.		<u>Operator manual intervention: Product Delivery Status Requests will be made by manual means</u>
NOAA0460# B	2145	TBD	SDPS	interface	<u>demo</u> TBD	un-verified	<u>demo</u>	<u>un-verified</u>	The SAA's shall have the capability to send and the ECS shall have the capability to receive Spacecraft Schedules for SAA data sets requested by the ECS as ancillary data for ECS		

									product generation.		
NOAA0510# B	2147	<u>mission essential</u> TBD	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The SAAs shall have the capability to send and the ECS shall have the capability to receive data sets to be used as ancillary data for ECS standard product generation.		
NOAA0530# B	2150	<u>N/A procedural</u> TBD	<u>N/A procedural</u> SDPS	<u>procedural</u> interface	<u>not verified by ECS</u> TBD	<u>N/A procedural</u> un-verified	<u>not verified by ECS</u>	<u>N/A procedural</u>	The SAAs shall have the capability to send, to ECS users, SAA-cataloged information, to include as a minimum data products, calibration data, documents, and algorithm packages.	This is a requirement on NOAA. ECS has no corresponding requirements.	<u>Implied requirements are covered explicitly by RbRs NOAA-0030#B & NOAA-0410#B</u>
NOAA0560# B	5868	<u>mission essential</u> TBD	SDPS CSMS	<u>operational/procedural</u>	<u>inspection</u> TBD	un-verified	<u>inspection</u>	<u>un-verified</u>	The SAAs and the ECS shall have the	Facilitation of this requirement will be	

									capability to perform Schedule Adjudication via telephone.	described by M&O in their 611/OP3 document.	
NOAA0570# B	2154	TBD	SDPS	interface	demo TB D	un-verified	demo	<u>un-verified</u>	The SAAs shall have the capability to send and the ECS shall have the capability to receive Algorithm Packages contributed by the SAAs as EOSDIS resources.		
NOAA0600# B	5870	TBD	CSMS	interface	<u>not verified by ECSTB D</u>	<u>N/A procedural</u> n-verified	<u>not verified by ECS</u>	<u>N/A procedural</u>	The SAAs shall have the capability to send and the ECS shall have the capability to receive Network Management information.		<u>Network Management information will be exchanged via telephone.</u>
NOAA0610# B	5873	TBD	CSMS	interface	<u>not verified by ECSTB D</u>	<u>N/A procedural</u> n-verified	<u>not verified by ECS</u>	<u>N/A procedural</u>	The ECS shall have the capability to send and the		<u>Network Management information will be exchanged</u>

									SAAs shall have the capability to receive Network Management information.		<u>via telephone.</u>
NOAA0700# B	3390	TBD	SDPS CSMS	interface	<u>not verified by ECSTB</u> D	<u>N/A procedural</u> n-verified	<u>not verified by ECS</u>	<u>N/A procedural</u>	The ECS shall have the capability to send and the NMC shall have the capability to receive requests for ancillary data to support ECS standard product generation.		
NOAA0710# B	2163	TBD	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The NMC shall have the capability to send and the ECS shall have the capability to receive data sets to be used as ancillary data for ECS standard product generation.		<u>ECS will not have a direct interface with NMC (NCEP). ECS will receive NMC (NCEP) data from DAS Data Link Server at GSFC.</u>

NOAA0720# B	2165	<u>NA pro</u> <u>cedural</u> <u>TBD</u>	<u>NA pro</u> <u>cedural</u> <u>SDPS</u>	<u>procedur</u> <u>al</u> <u>interface</u> <u>e</u>	<u>not</u> <u>verified</u> <u>by</u> <u>ECSTB</u> <u>D</u>	<u>N/A pro</u> <u>cedural</u> <u>un-</u> <u>verified</u>	<u>not</u> <u>verified</u> <u>by ECS</u>	<u>N/A pro</u> <u>cedural</u>	The ECS shall have the capability to send and the NMC shall have the capability to receive Product Availability Queries.		<u>ECS will not</u> <u>have a direct</u> <u>interface with</u> <u>NMC</u> <u>(NCEP).</u> <u>ECS will</u> <u>receive NMC</u> <u>(NCEP) data</u> <u>from DAS</u> <u>Data Link</u> <u>Server at</u> <u>GSFC.</u>
NOAA0730# B	2167	<u>NA pro</u> <u>cedural</u> <u>TBD</u>	<u>NA pro</u> <u>cedural</u> <u>SDPS</u>	<u>procedur</u> <u>al</u> <u>interface</u> <u>e</u>	<u>not</u> <u>verified</u> <u>by</u> <u>ECSTB</u> <u>D</u>	<u>N/A pro</u> <u>cedural</u> <u>un-</u> <u>verified</u>	<u>not</u> <u>verified</u> <u>by ECS</u>	<u>N/A pro</u> <u>cedural</u>	The NMC shall have the capability to send and the ECS shall have the capability to receive Product Availability Lists.		<u>ECS will not</u> <u>have a direct</u> <u>interface with</u> <u>NMC</u> <u>(NCEP).</u> <u>ECS will</u> <u>receive NMC</u> <u>(NCEP) data</u> <u>from DAS</u> <u>Data Link</u> <u>Server at</u> <u>GSFC.</u>
NOAA0800# B	2169	<u>mission</u> <u>essential</u> <u>TBD</u>	<u>SDPS</u>	<u>interface</u>	<u>demo</u> <u>TBD</u>	<u>un-</u> <u>verified</u>	<u>demo</u>	<u>un-</u> <u>verified</u>	The NOAA Data Centers shall have the capability to send and the ECS shall have the capability to receive advertising information.		

Table 2: Changes to LANDSAT Release B RBRs

Baseline: November 8, 1996

CCR: 96-1472/A

RBR_id	req_key	req_category	segment	req_type	s_verif_method	s_verif_status	a_verif_method	a_verif_status	text	interpretation text	clarification
LAND-0015#B	6100	N/A	SDPS	interface	test TBD	un-verified	test	un-verified	The MOC shall have the capability to interface with ECS as a user to acquire Landsat 7 metadata via a standing order.	Standard ECS user interface.	
LAND-0020#B	5660	N/A	SDPS	interface	test TBD	un-verified	test	un-verified	The ECS shall have the capability to provide access to the Landsat 7 directory in the GCMD.	Directory information placed on GCMD by Landsat 7.	
LAND-0030#B	5667	mission essential N/A	SDPS	interface	test TBD	un-verified	test	un-verified	The LPS shall have the capability to send and the ECS shall have the capability to		

									receive data availability notices for Landsat 7 Level 0R data, and associated inventory metadata and browse data.		
LAND-0040#B	5694	N/A	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The ECS shall have the capability to provide access to the Landsat 7 guide information.	Guide information placed on EDC guide server by Landsat 7.	
LAND-0050#B	5701	<u>mission essential</u> N/A	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The LPS shall have the capability to send and the ECS shall have the capability to receive inventory metadata for Landsat 7 Level 0R data.	Full ingest and archive provided.	
LAND-0060#B	5706	<u>mission essential</u> N/A	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The LPS shall have the capability to send and the	Full ingest and archive provided.	

									ECS shall have the capability to receive browse data for Landsat 7 Level 0R data.		
LAND-0070#B	5708	<u>mission essential</u> N/A	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The LPS shall have the capability to send and the ECS shall have the capability to receive Landsat 7 Level 0R data.	Full volume data transfer; full ingest and archive provided.	
LAND-0080#B	5710	<u>mission essential</u> N/A	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The ECS shall have the capability to send and the LPS shall have the capability to receive a data transfer acknowledgment.	File transfer protocol supported response.	
LAND-0085#B	5712	<u>mission essential</u> N/A	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The ECS shall have the capability to send and the LPS shall	SDPS generated Data Delivery Notice.	

									have the capability to receive an acknowledgment after ECS archives the Landsat 7 data.		
LAND-0090#B	5713	N/A	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The IGSs shall have the capability to send and the ECS shall have the capability to receive inventory metadata for Landsat 7 IGS data.		
LAND-0100#B	5714	N/A	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The IGSs shall have the capability to send and the ECS shall have the capability to receive browse data for Landsat 7 IGS data.		
LAND-0110#B	5715	N/A	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The IAS shall have the capability to		

									send and the ECS shall have the capability to receive Landsat 7 instrument (ETM+) calibration information and associated metadata.		
LAND-0115#B	5716	N/A	SDPS	interface	test TBD	un-verified	test	<u>un-verified</u>	The IAS shall have the capability to interface with ECS as a user to acquire Landsat Level OR data.	Standard ECS user interface.	
LAND-0120#B	5717	N/A	CSMS	interface	test TBD	un-verified	test	<u>un-verified</u>	The ECS shall have the capability to send and the MMO shall have the capability to receive system management status.		
LAND-0125#B	5729	N/A	CSMS	interface	test TBD	un-verified	test	<u>un-verified</u>	The ECS shall have the	Statistics and reports are not yet	

									capability to send and the MMO shall have the capability to receive statistics (TBD) and reports (TBD).	defined by Landsat.	
LAND-0130#B	5735	N/A	CSMS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The MMO shall have the capability to send and the ECS shall have the capability to receive system management status.		
LAND-0140#B	5736	N/A	CSMS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The MMO shall have the capability to send and the ECS shall have the capability to receive product cost information.		
LAND-0150#B	5738	N/A	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	All information exchanged between the	<u>Message formats only.</u>	

									Landsat 7 System and the ECS shall be provided in mutually agreed to formats.		
LAND-0160#B	5741	N/A	SDPS	interface	test TBD	un-verified	<u>test</u>	<u>un-verified</u>	All information provided to the ECS by the IGSs shall be provided in mutually agreed to formats.		
LAND-0170#B	5748	N/A	SDPS	interface	<u>analysis</u> TBD	un-verified	<u>analysis</u>	<u>un-verified</u>	ECS elements shall be capable of supporting end-to-end test and verification activities of the EOS program including pre-launch, satellite verification, and instrument verification and		

									operational phases as they pertain to the Landsat 7/ECS interface.		
LAND-0180#B	5749	N/A	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	ECS shall be capable of ingesting, storing and distributing data from LPS to support Landsat-7 for: a. Pre-launch checkout of instruments b. Development of initial calibration information.		
LAND-0185#B	5759	<u>mission essential</u> N/A	SDPS	interface	<u>analysis</u> TBD	un-verified	<u>analysis</u>	<u>un-verified</u>	The ECS shall be capable of supporting interface testing, operations testing and acceptance testing with the LPS, IAS and MOC.		

LAND-0201#B	6102	N/A	SDPS	interface	test TBD	un-verified	test	un-verified	The ECS shall be capable of ingesting and archiving and acknowledging Landsat 7 Level OR data produced by LPS over 12 hours, within 8 hours from the time of receipt of the data availability notice from LPS.		
LAND-0210#B	5842	N/A	SDPS	interface	test TBD	un-verified	test	un-verified	The ECS shall begin normal distribution of Landsat 7 products, within 24 hours from the time of receipt of the product order.		
LAND-0230#B	5851	N/A	CSMS	interface	test TBD	un-verified	test	un-verified	The ECS shall be capable of interfacing with the		

									MMO and MOC via the Internet.		
LAND-0240#B	8264	N/A_procedural	SDPS CSMS	interface	<u>analysis inspection</u>	un-verified	<u>analysis inspection</u>	un-verified	The interfaces and any systems connecting to the ECS through these interfaces shall be consistent and compatible with ESDIS implementation of all security requirements imposed on the ECS and with all security documents applicable to ECS.		

Table 3: Changes to NI Release B RBRs
Baseline: November 8, 1996
CCR: 96-1472/A

RBR_id	req_key	req_category	segment	req_type	s_verif_method	s_verif_status	a_verif_method	a_verif_status	text	interpretation text	clarification
NI-0160#B	2055	<u>mission essential</u> TBD	FOS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	ECS shall have the capability to		

									receive other non-telemetry data messages from the NCC, which includes at a minimum status and reconfiguration messages. These messages will be defined in the ICD Between the GSFC MOCs and the NCCDS.		
NI-0360#B	2075	TBD	SDPS	interface	test TBD	un-verified	test	<u>un-verified</u>	ECS shall have the capability to send a notification of orbit or attitude quality checks and request updated (refined/repai red) orbit or attitude data from the FDF		

									when necessary. Mission-specific requirements for FDF support of EOS missions will be documented in the EOS mission-level Detailed Mission Requirements documents and FDF-developed ICDs.		
NI-0365#B	2076	TBD	SDPS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	ECS shall have the capability to receive from FDF a notification of orbit or attitude quality checks. Mission-specific requirements for FDF support of EOS missions will		

									be documented in the EOS mission-level Detailed Mission Requirements documents and FDF-developed ICDs.		
NI-0430#B	2082	<u>mission essential</u> TBD	CSMS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	ECS shall have the capability to receive notification of faults in the NOLAN network that may affect the quality of NOLAN services between ECS and its users.		
NI-0440#B	2084	<u>mission essential</u> TBD	CSMS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	ECS shall have the capability to receive information regarding fault status and estimated time to repair or resolve NOLAN		

									faults that may affect the quality of NOLAN services between ECS and its users.		
NI-0450#B	2086	<u>mission essential</u> TBD	CSMS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	ECS shall have the capability to receive periodic summary information about faults that may have affected the quality of NOLAN services between ECS and its users.		
NI-0470#B	2090	<u>mission essential</u> TBD	CSMS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	ECS shall have the capability to receive notifications of security breaches at NOLAN sites or within the NOLAN network that could potentially		

									affect ECS sites.		
NI-0480#B	2092	<u>mission essential</u> TBD	CSMS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	ECS shall have the capability to send to NOLAN notifications of security breaches at ECS facilities that could affect NOLAN and other EOSDIS sites.		

Table 4: Changes to AM1 Release B RBRs
Baseline: November 8,1996
CCR: 96-1472/A

RBR_id	req_key	req_category	segment	req_type	s_verif_method	s_verif_status	a_verif_method	a_verif_status	text	interpretation text	clarification
AM1-0215#B	33	<u>mission essential</u> TBD	FOS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The AM-1 spacecraft vendor shall have the capability to provide and the EOC shall have the capability to receive, AM-1 project data base		

									information containing both spacecraft and instrument parameters.		
AM1-0220#B	35	<u>mission essential</u> TBD	CSMS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The ECS shall have the capability to provide and the MISR, MOPITT, MODIS, and CERES PIs/TLs shall have the capability to receive IST toolkit software, IST toolkit software upgrades, and IST toolkit documentation.		
AM1-0230#B	41	<u>mission essential</u> TBD	FOS	interface	<u>test</u> TBD	un-verified	<u>test</u>	<u>un-verified</u>	The IST toolkit shall have the capability to accept data from a science computing facility that		

									supports PI/TL operations, which include the following data (at a minimum): a. instrument microprocess or memory loads. b. changes in the instrument parameters		
AM1-0310#B	5627	TBD		procedural	demo TB D	un-verified	<u>demo</u>	<u>un-verified</u>	The ECS contractor shall provide and the AM-1 spacecraft vendor shall receive training on operations of the FOS.	M&O will support	
AM1-0315#B	5630	TBD		procedural	demo TB D	un-verified	<u>demo</u>	<u>un-verified</u>	The ECS contractor shall provide and the AM-1 instrument teams shall receive training on operations of the IST toolkit.	M&O will support	

AM1-0320#B	5631	TBD		procedural	demo TBD	un-verified	demo	<u>un-verified</u>	The AM-1 spacecraft vendor shall provide and the ECS contractor shall receive AM-1 spacecraft operations training.	M&O will support.		
AM1-0330#B	5632	TBD		procedural	demo TBD	un-verified	demo	<u>un-verified</u>	The AM-1 instrument teams shall provide and the ECS contractor shall receive AM-1 instrument operations training.	M&O will support.		
AM1-1050#B	3194	<u>mission critical</u> TBD	FOS CSMS	interface	<u>test/analysis</u> TBD	un-verified	<u>test/analysis</u>	<u>un-verified</u>	The EOC shall support several uplink rates to the spacecraft, which include at a minimum the following: a. 10 kilobits per second (kbps) (SSA uplink)			

									b. 1 kbps (S-band MA uplink) c. 125 bits per second (bps) (SSA uplink during contingency operations) d. 2 kbps (emergency operations via S-band DSN link)		
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